

ABSTRACT OF THE DISCLOSURE

5 An oil activated fuel injector includes a control valve body with end cap
solenoids and a slidably mounted spool. An element is arranged on a portion of the
spool for minimizing latching effects of the slidably mounted spool. A drainage
system may be formed in the fuel injector for reducing oil accumulation between the
end cap and the control valve body. Additionally, a minimized surface area may be
10 formed on the end of the spool or one or both of the end caps. The minimized surface
area may be a raised portion of different dimensions also minimizes the latching
effects.

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